PCT/US2003/022772

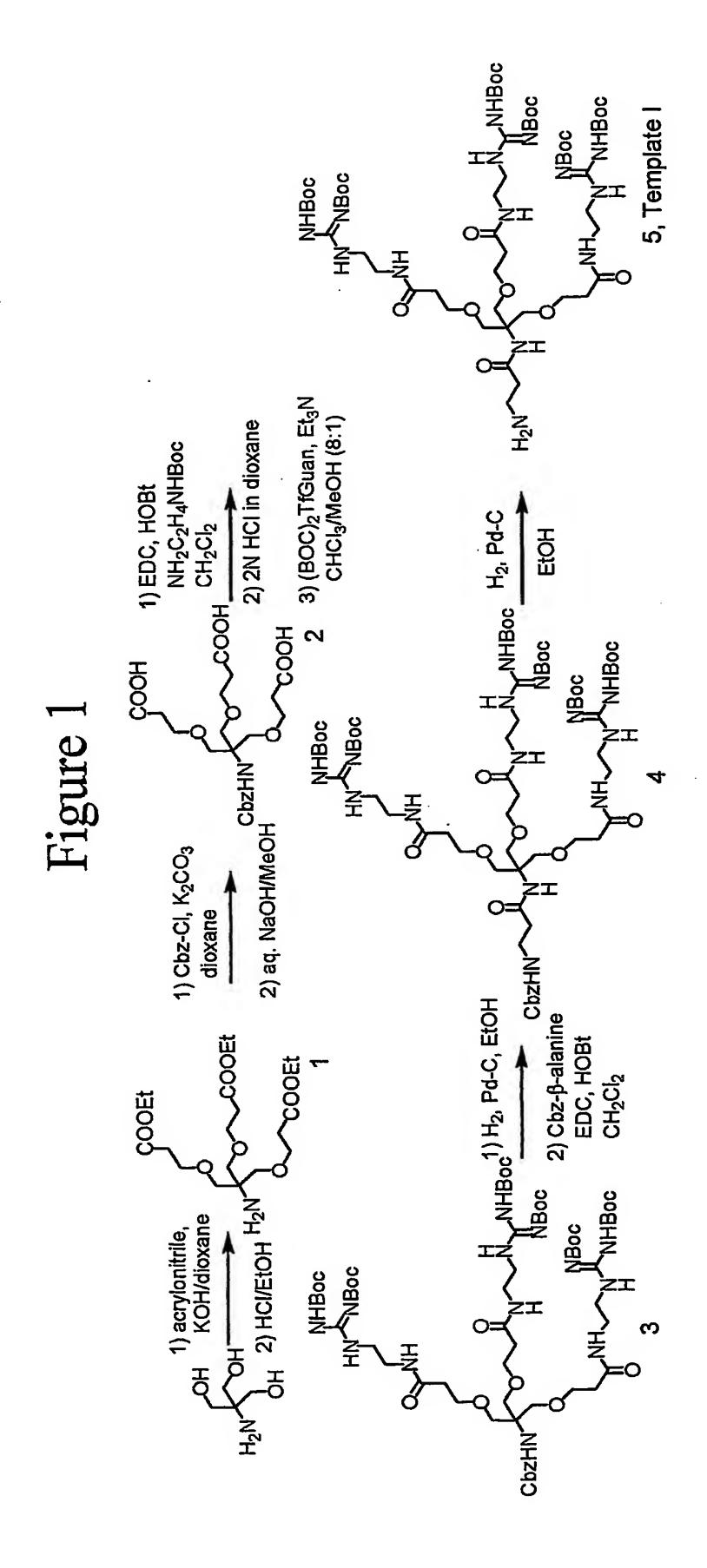


Figure 2A

6

Figure 2B

Figure 2C

8

Figure 3A

Figure 3B

Figure 3C

Figure 3D

Figure 4A

$$H_{2}N N H_{2}^{+}$$
 $H_{3}N N H_{2}^{+}$
 $H_{4}N N H_{2}^{+}$
 $H_{5}N N H_{2}^{+}$

Tat₄₉₋₅₇ (RKKRRPPRR)

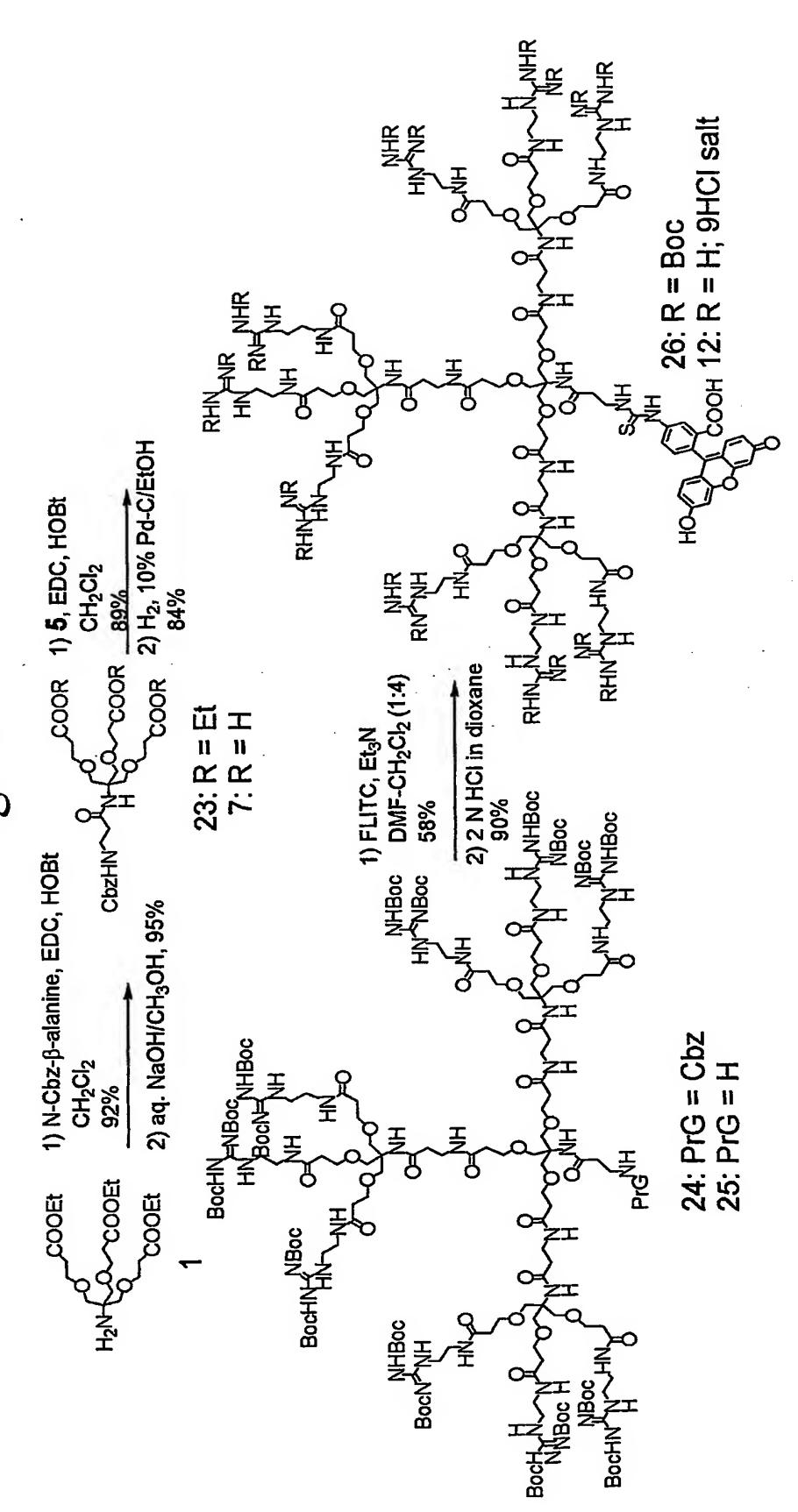
Figure 4B

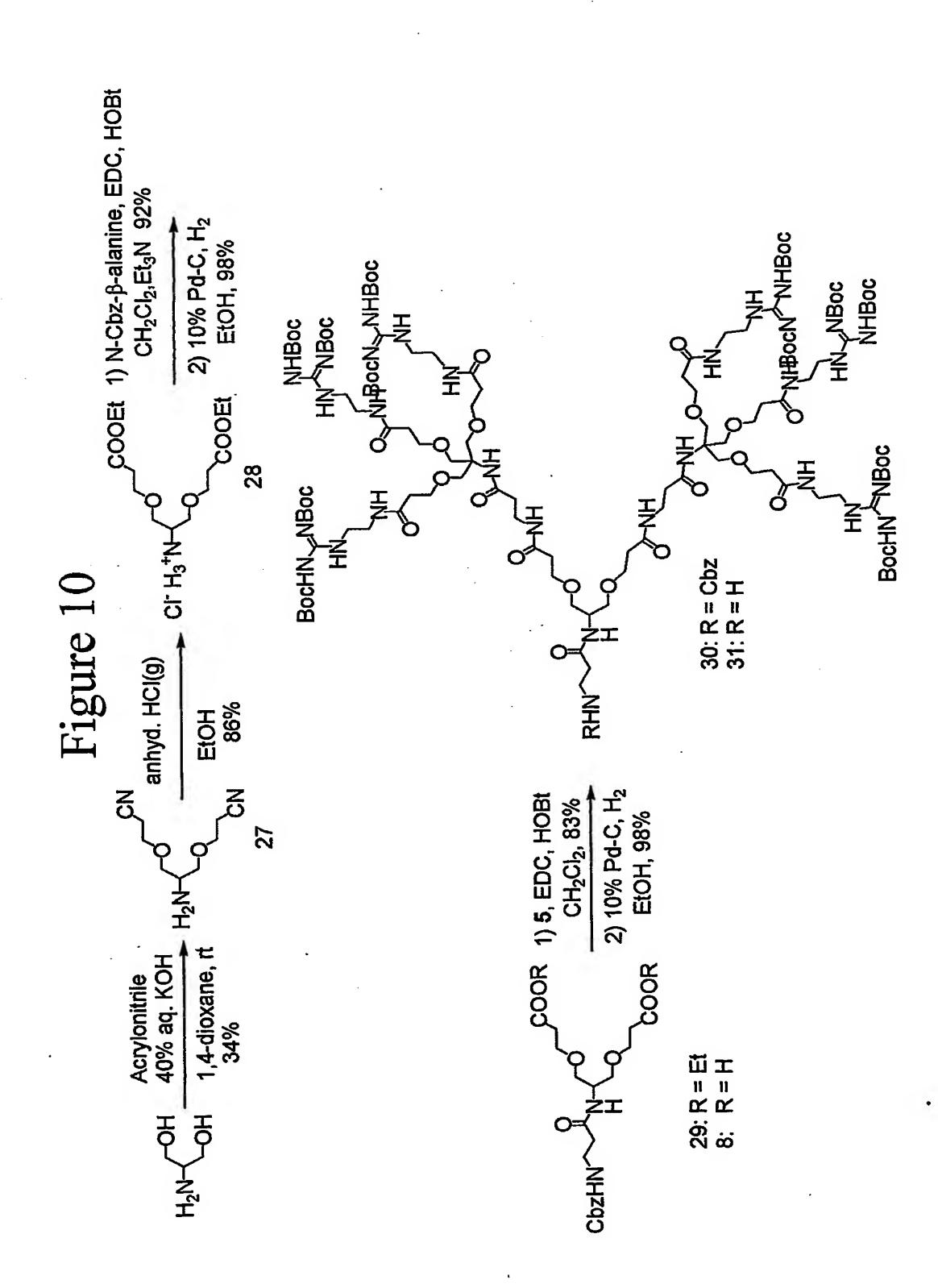
$$H_{2}N_{1}NH_{2}^{+}H_{2}N_{2}NH_{2}^{+}H_{2}N_{1}NH_{2}^{+}H_{2}N_{2}NH_{2}^{+}H_{2}N_{1}NH_{2}^{+}H_{2$$

R9 (9-mer of L-Arg))

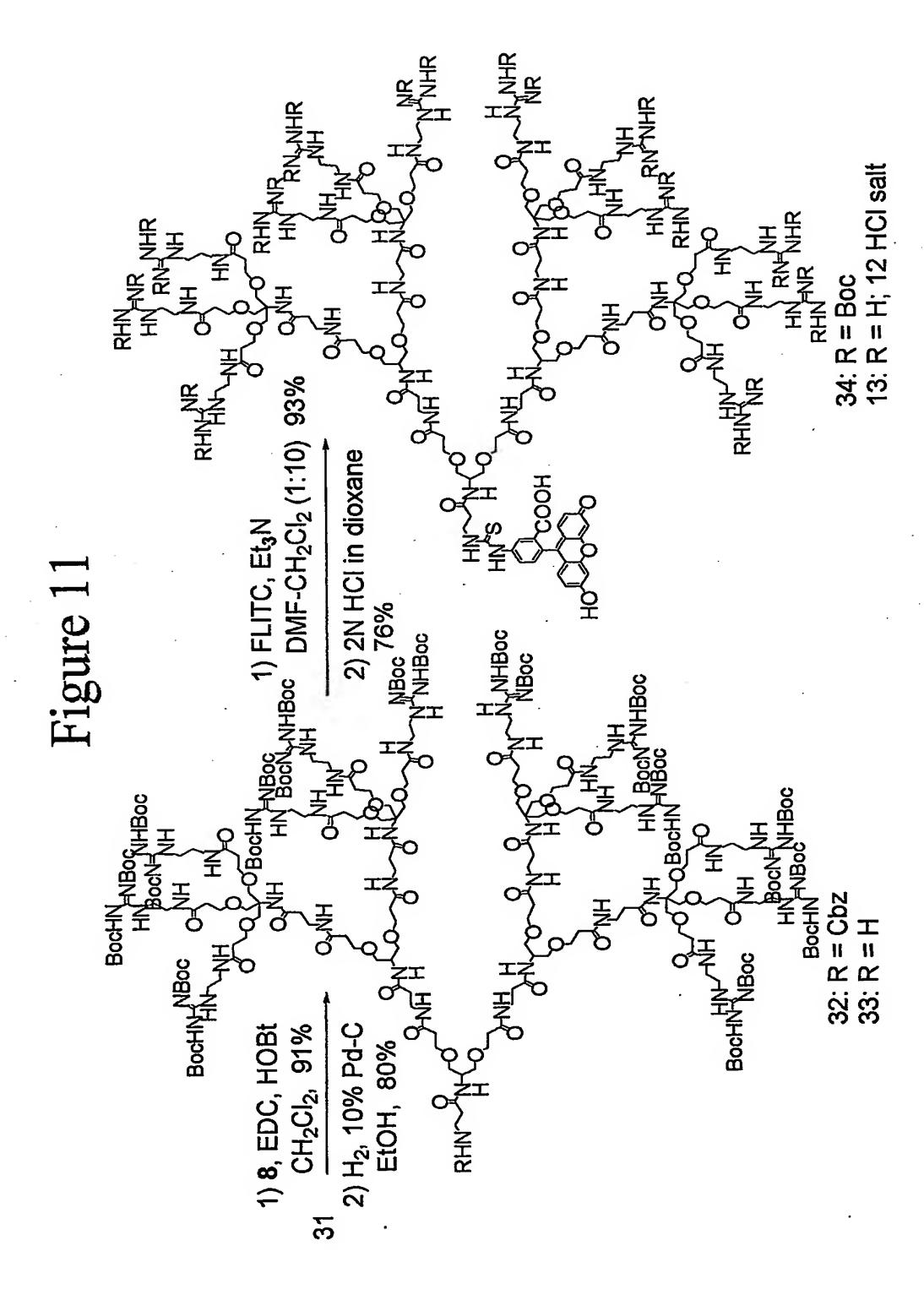
11/55 Figure 8

Figure 9





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1) Cbz-ß-alanine

37

1) 2N HCl dioxane

39

38

%26

40: R = Boc 41: R - H, TFA salt

Figure 13A

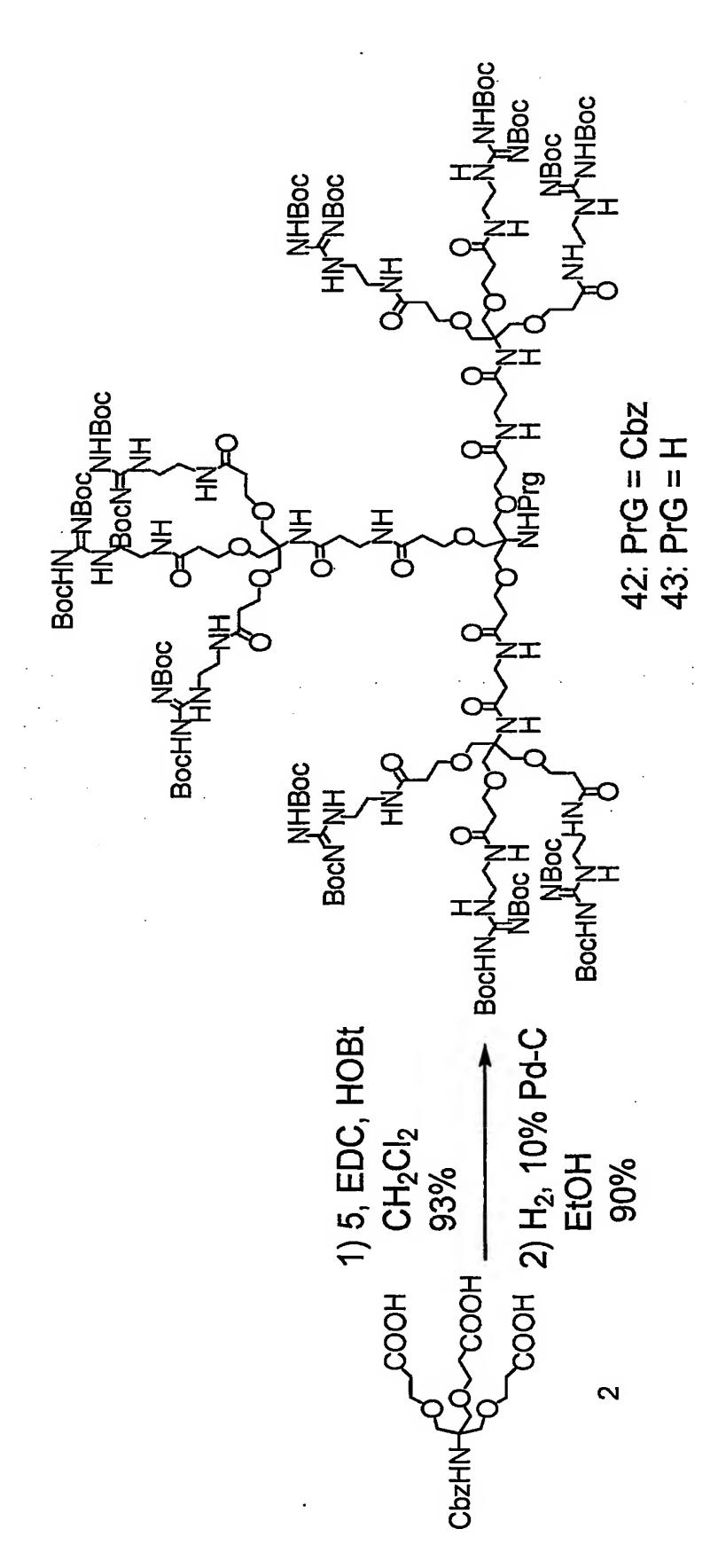
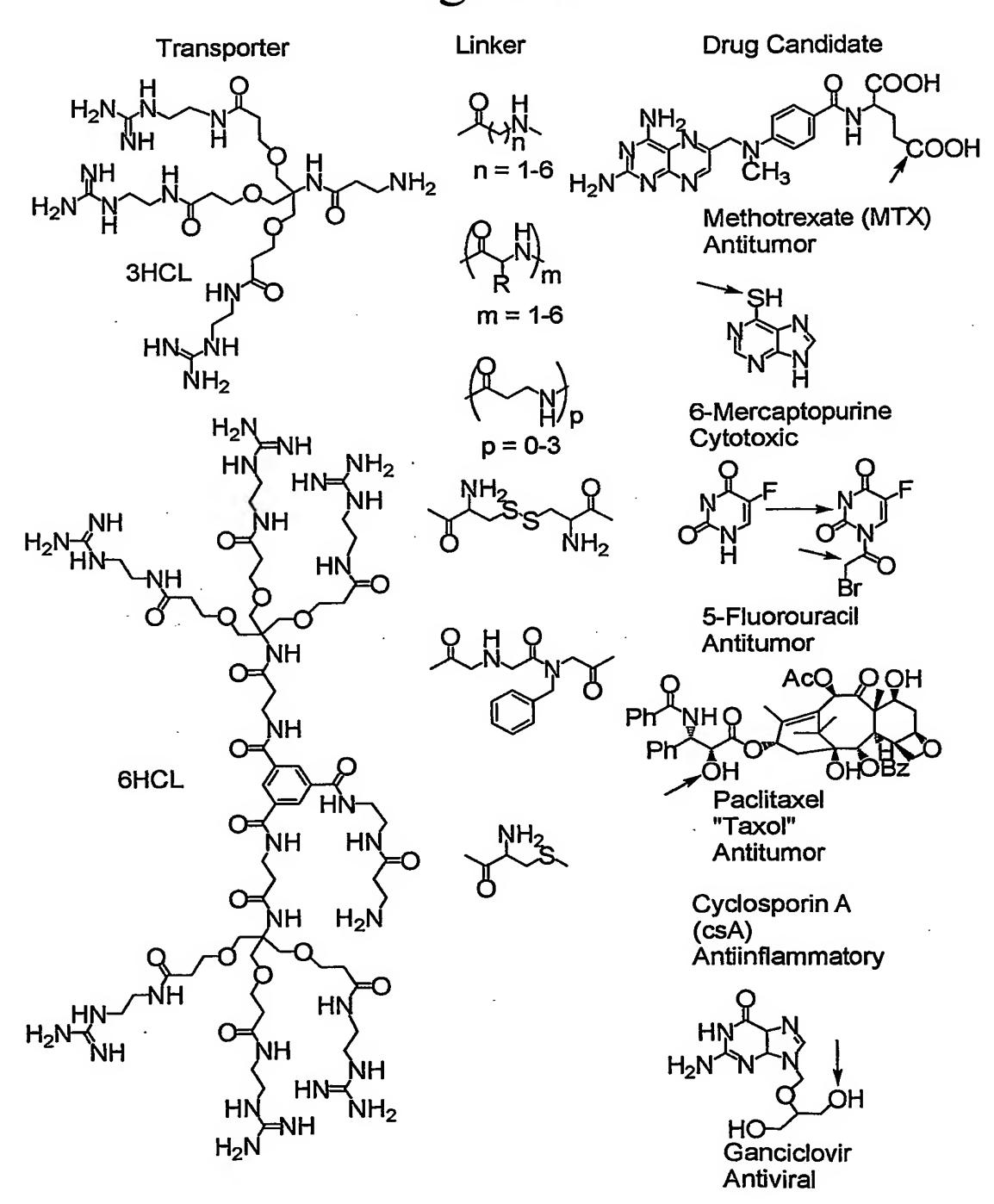


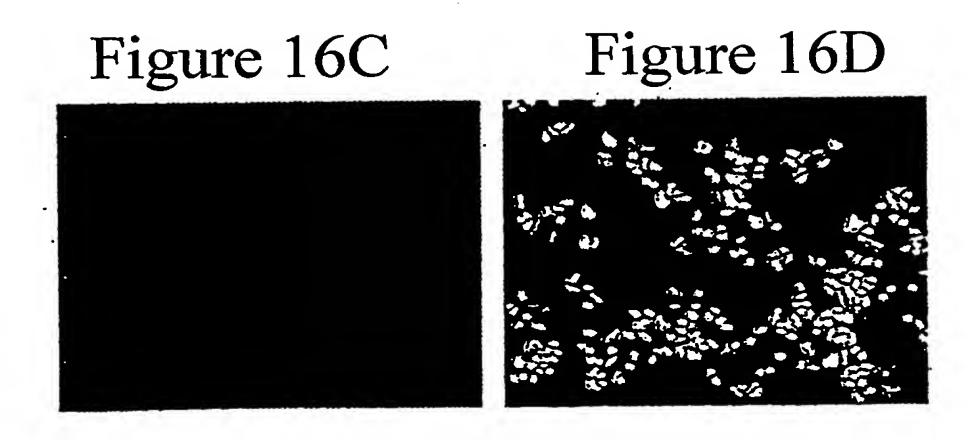
Figure 13B

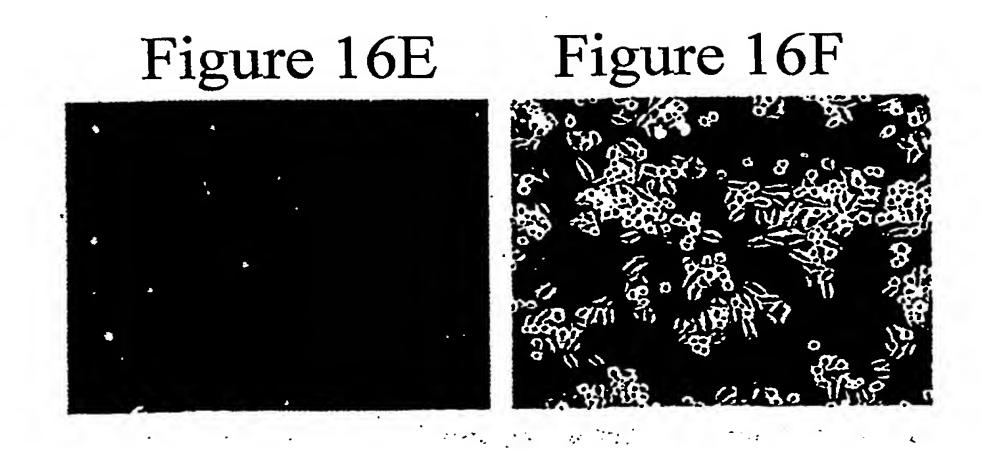
19/55 Figure 15



20/55

Figure 16A Figure 16B





21/55

Figure 16G

Figure 16H





Figure 16I

Figure 16J

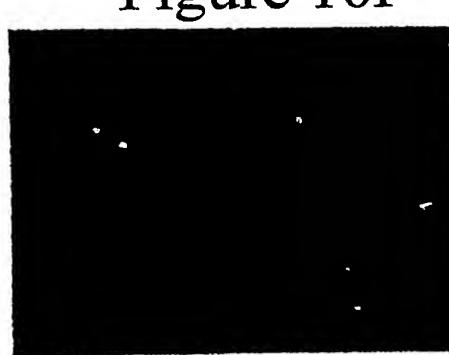
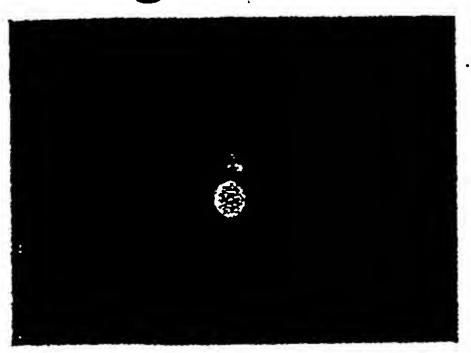




Figure 16K

Figure 16L





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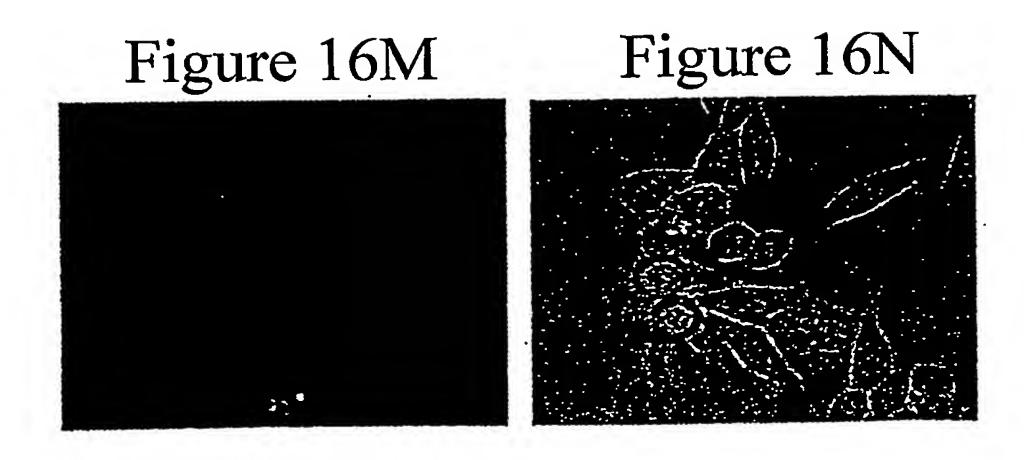
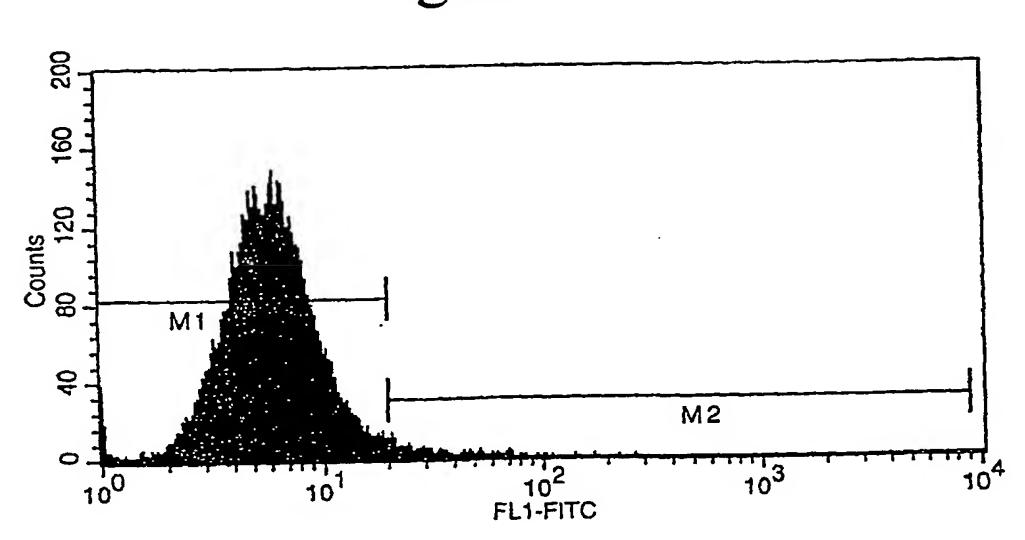


Figure 17A



23/55
Figure 17B

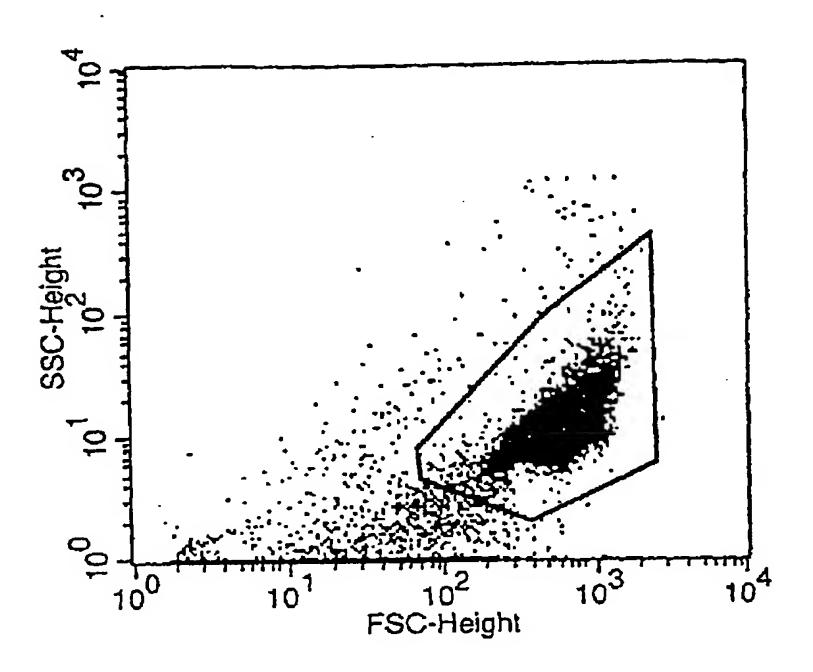
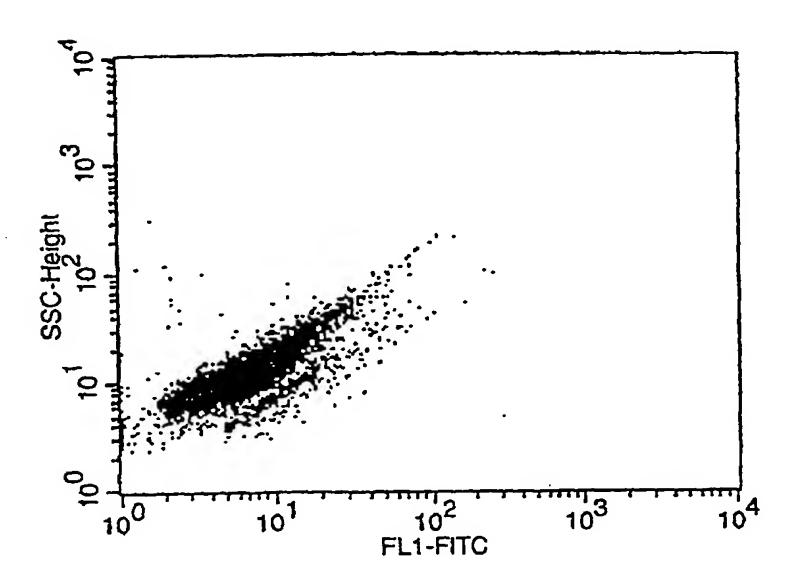


Figure 17C



24/55 Figure 18A

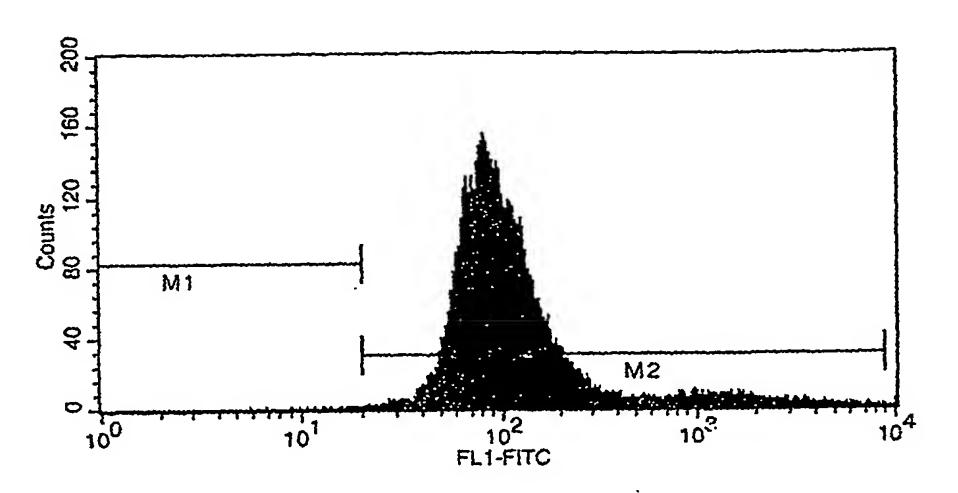
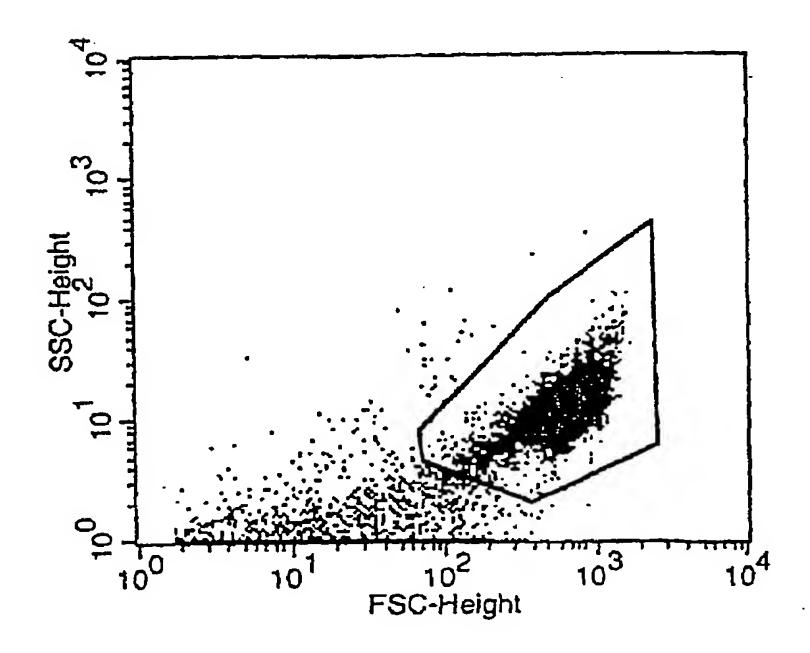


Figure 18B



25/55 Figure 18C

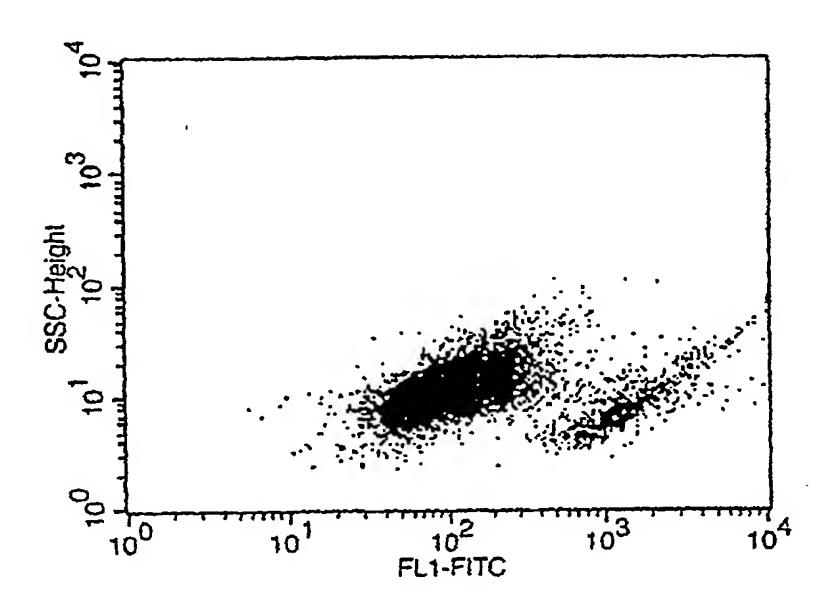
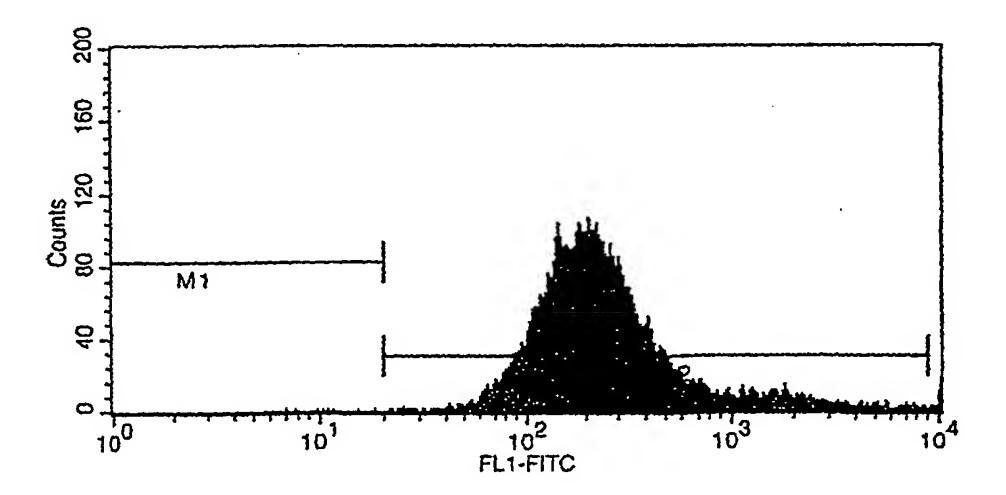


Figure 19A



26/55 Figure 19B

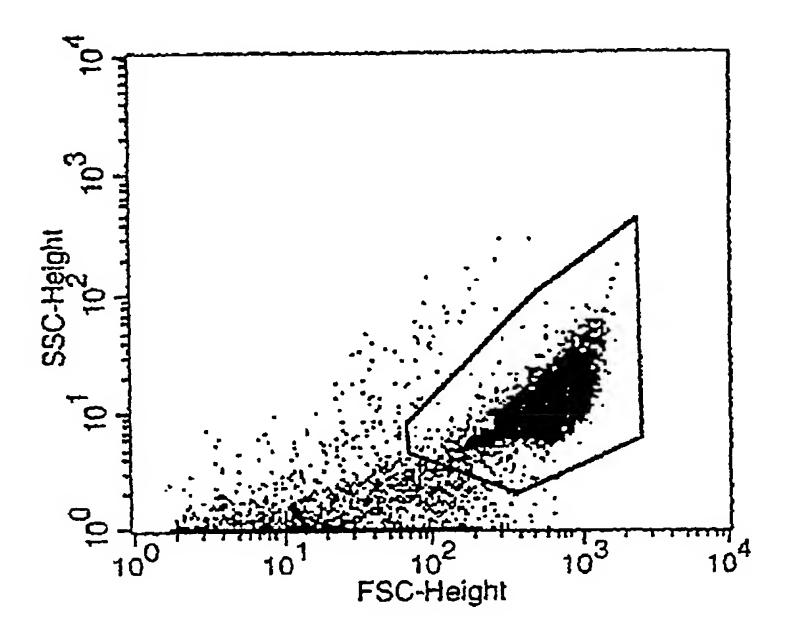
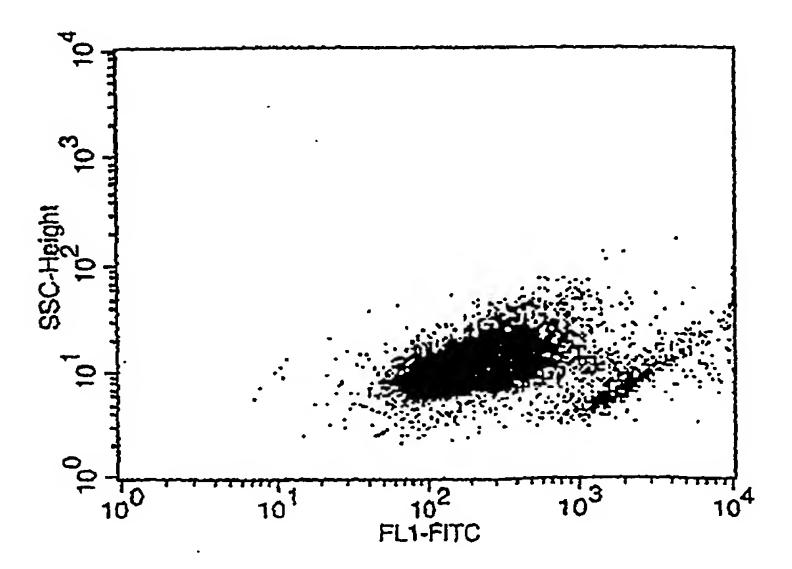


Figure 19C



27/55 Figure 20

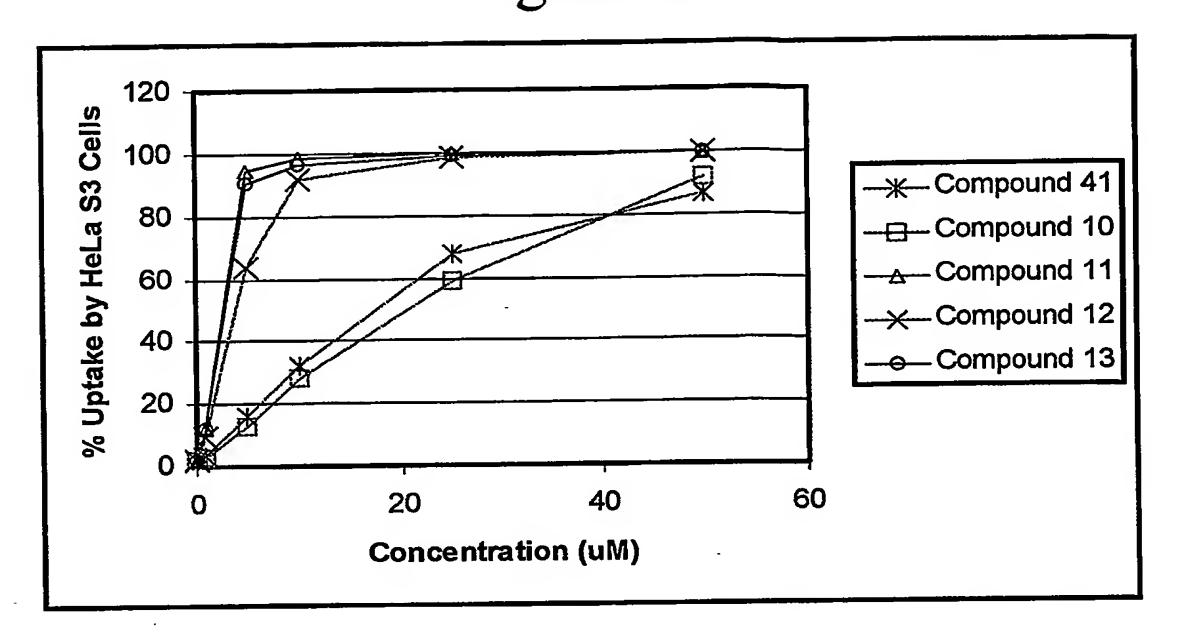
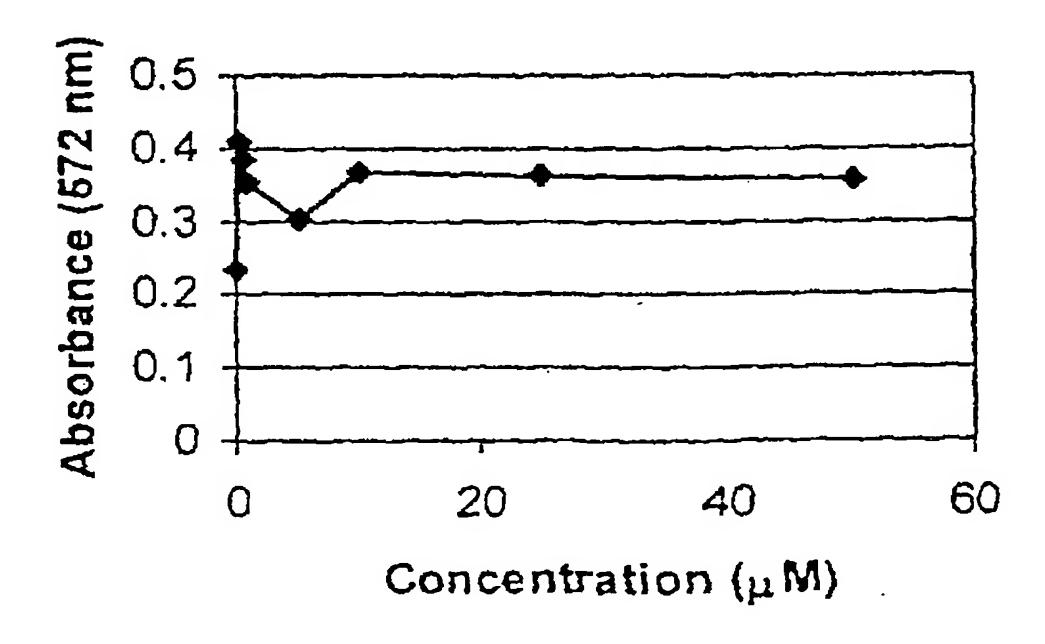


Figure 21



28/55 Figure 22A

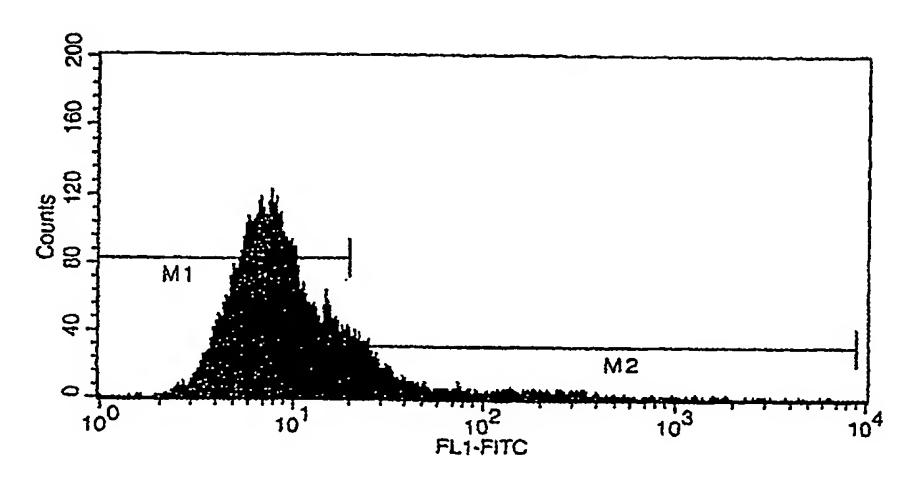
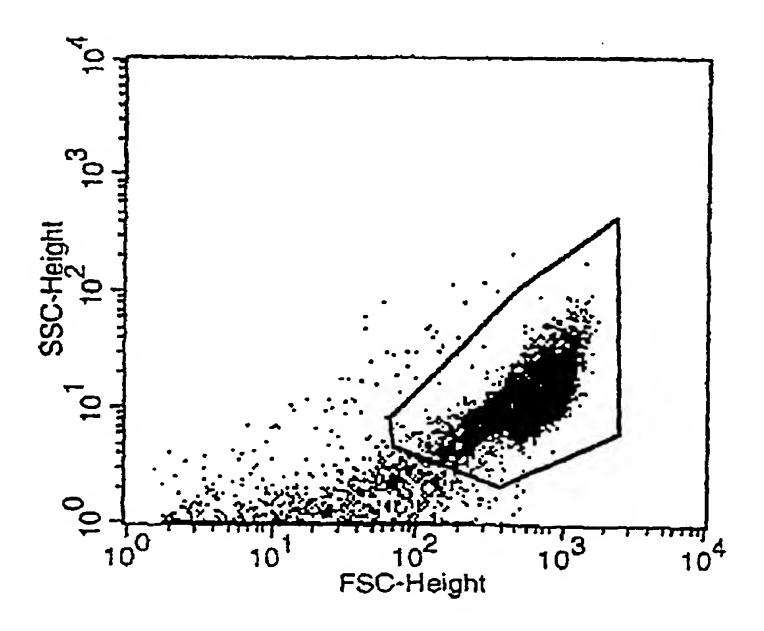


Figure 22B



29/55 Figure 22C

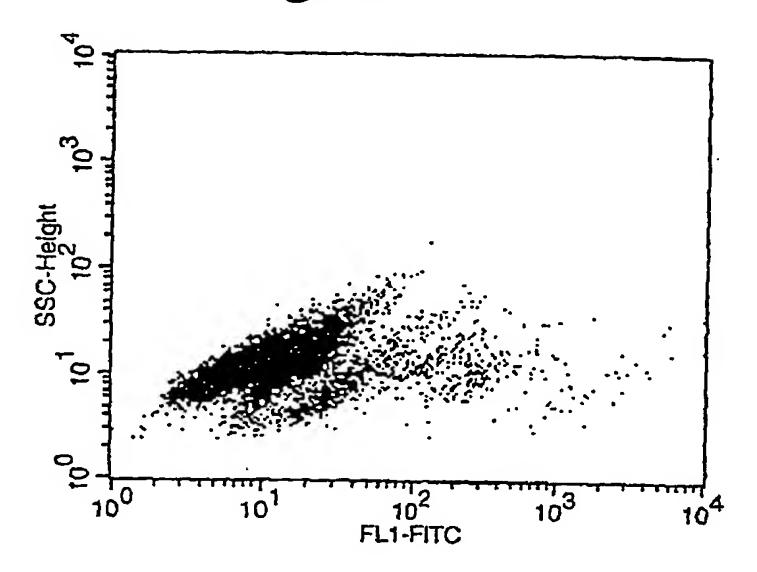
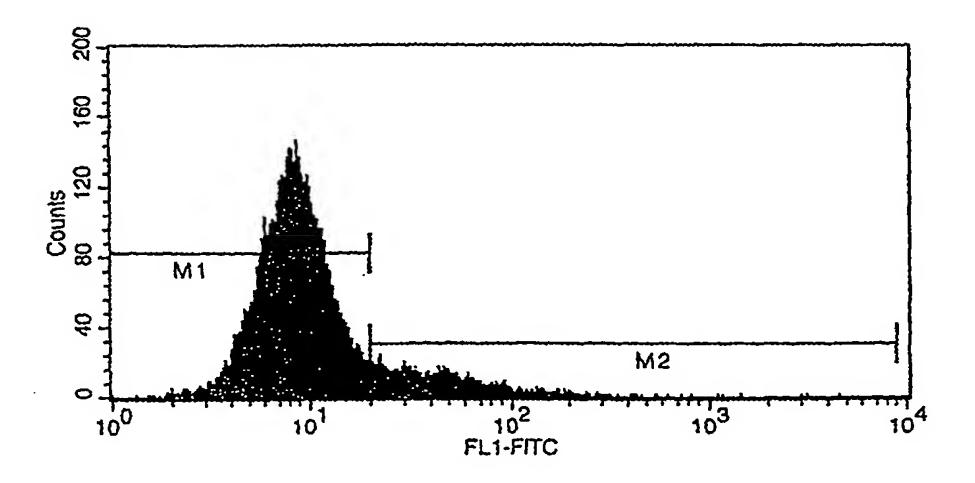


Figure 23A



30/55 Figure 23B

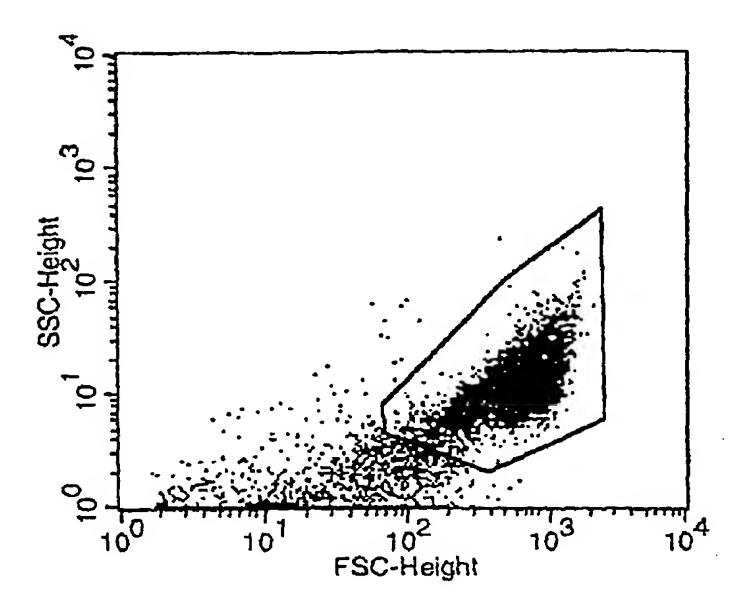
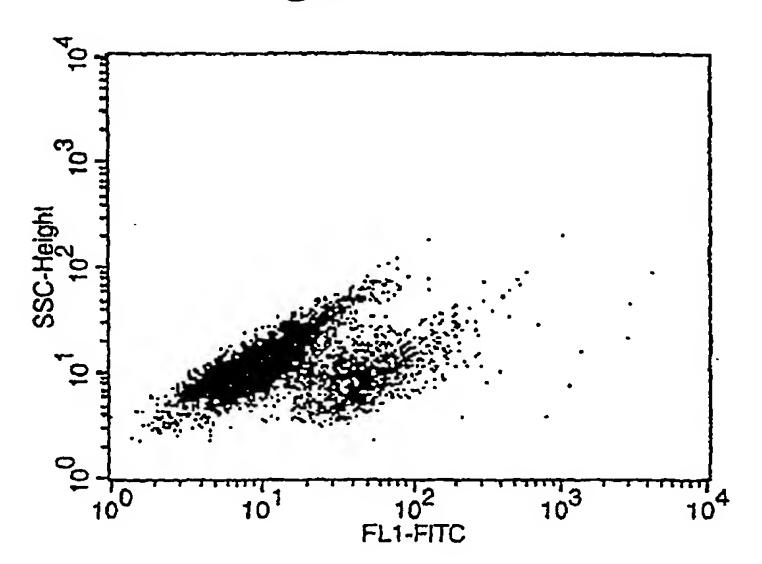


Figure 23C



31/55 Figure 24A

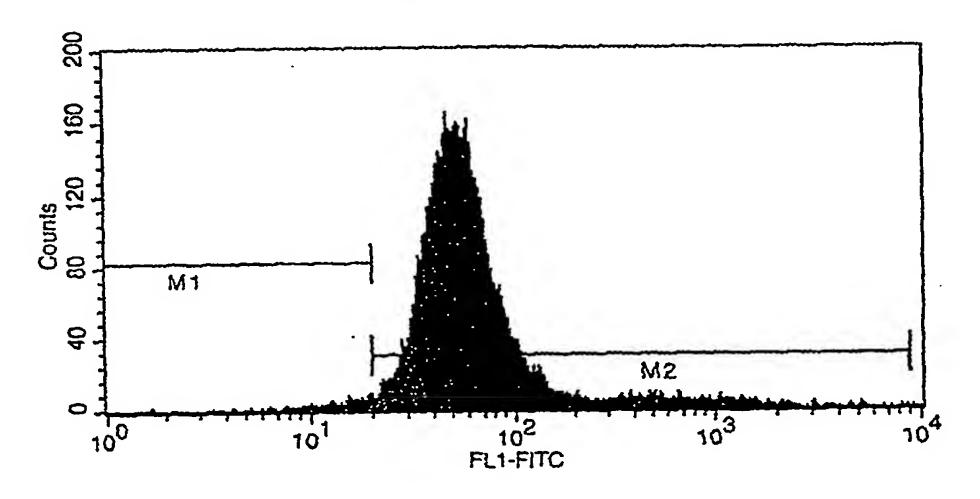
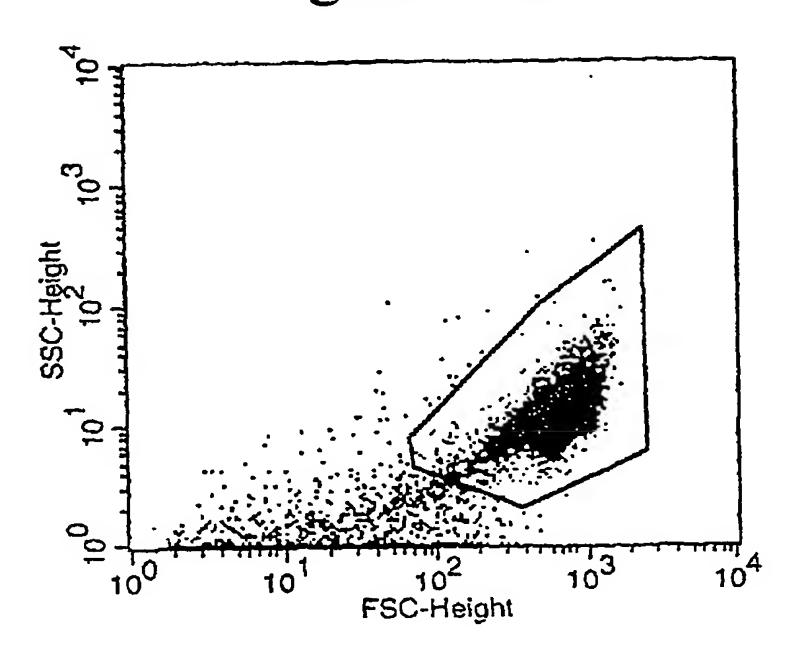


Figure 24B



32/55 Figure 24C

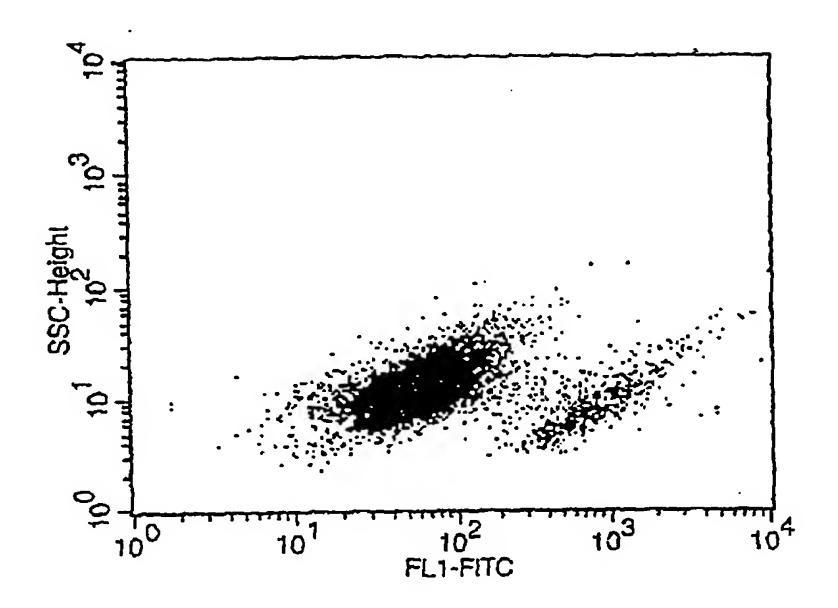
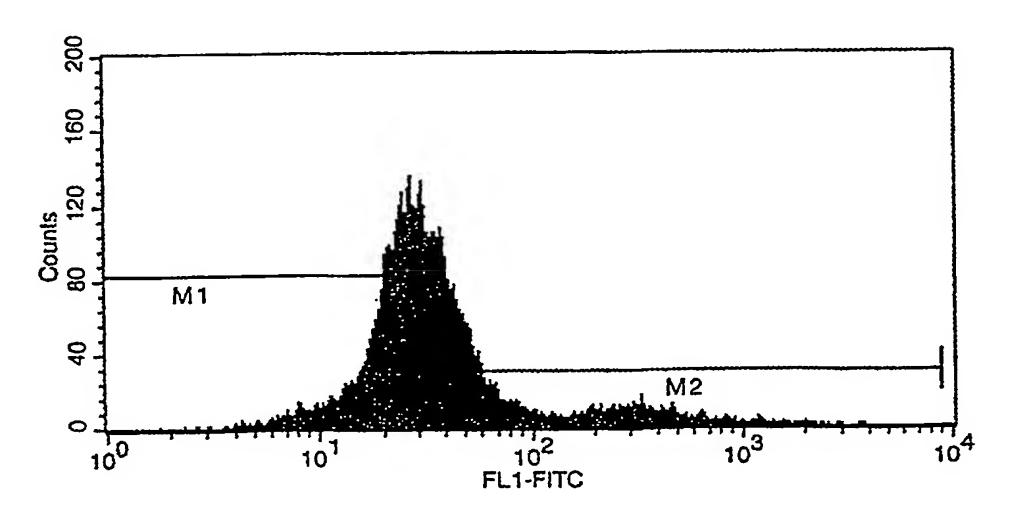


Figure 25A



33/55 Figure 25B

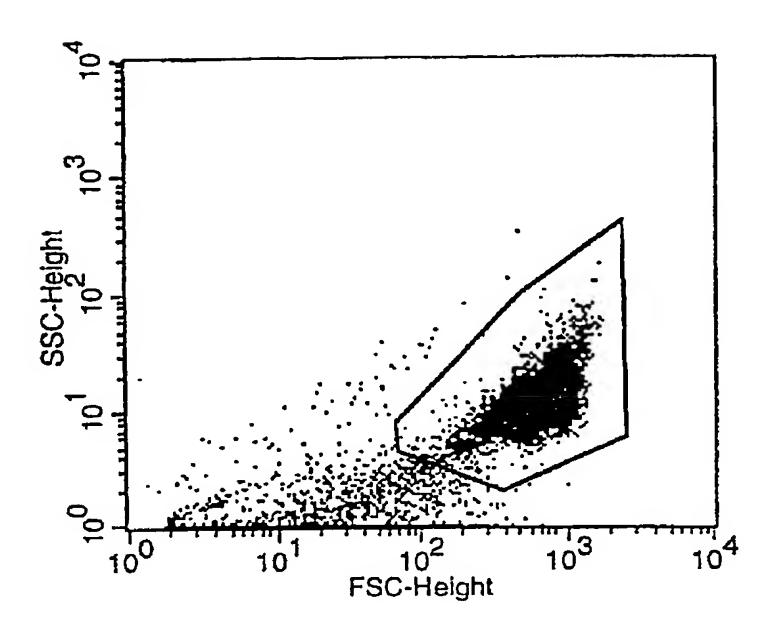
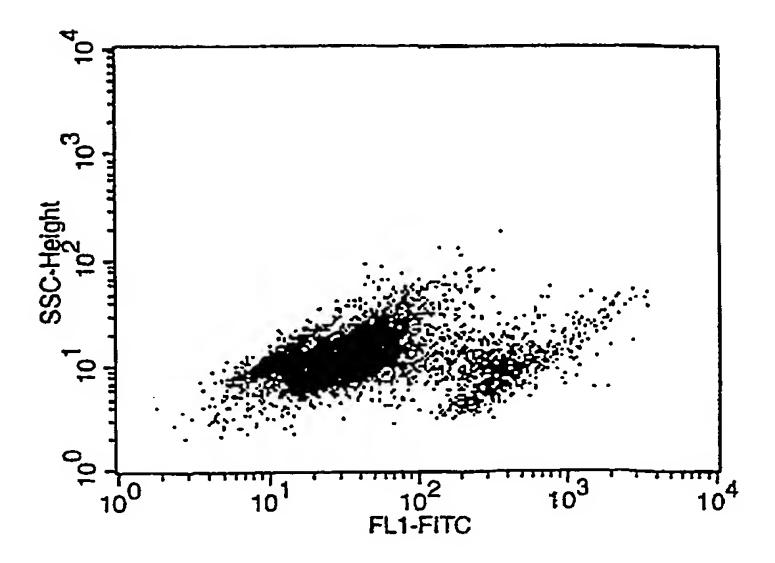


Figure 25C



34/55 Figure 26A

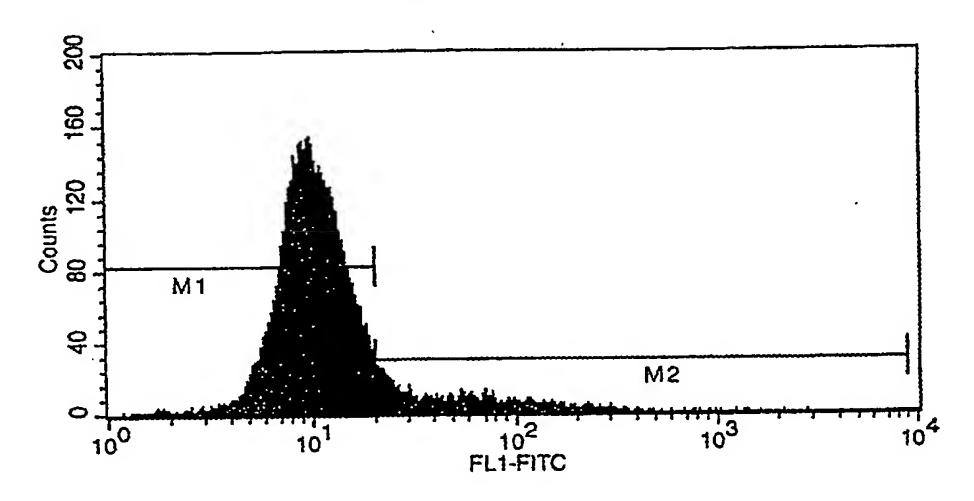
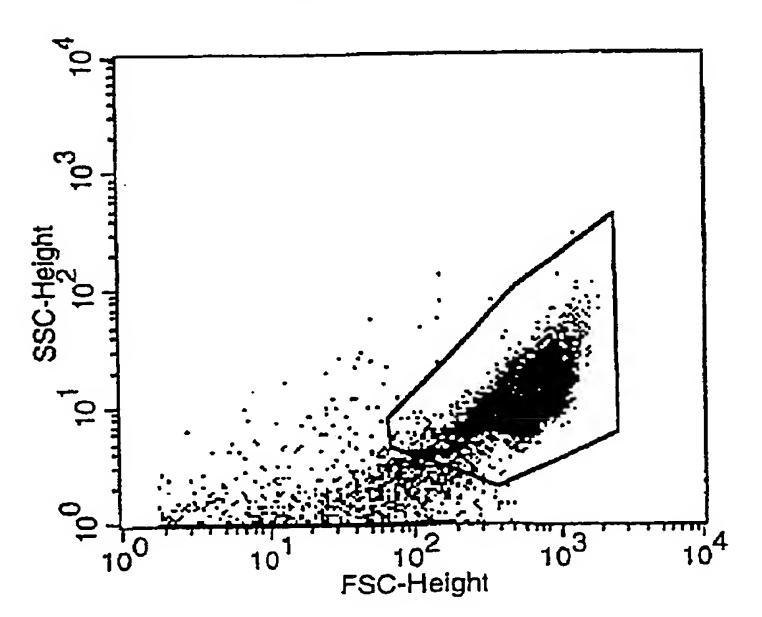
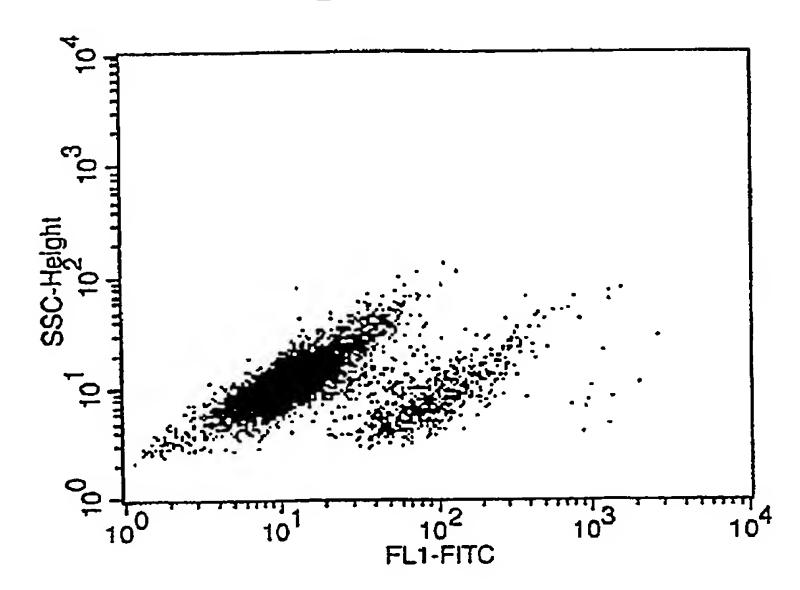


Figure 26B



35/55 Figure 26C



36/55 Figure 27A

37/55 Figure 27B

38/55 Figure 27C

48

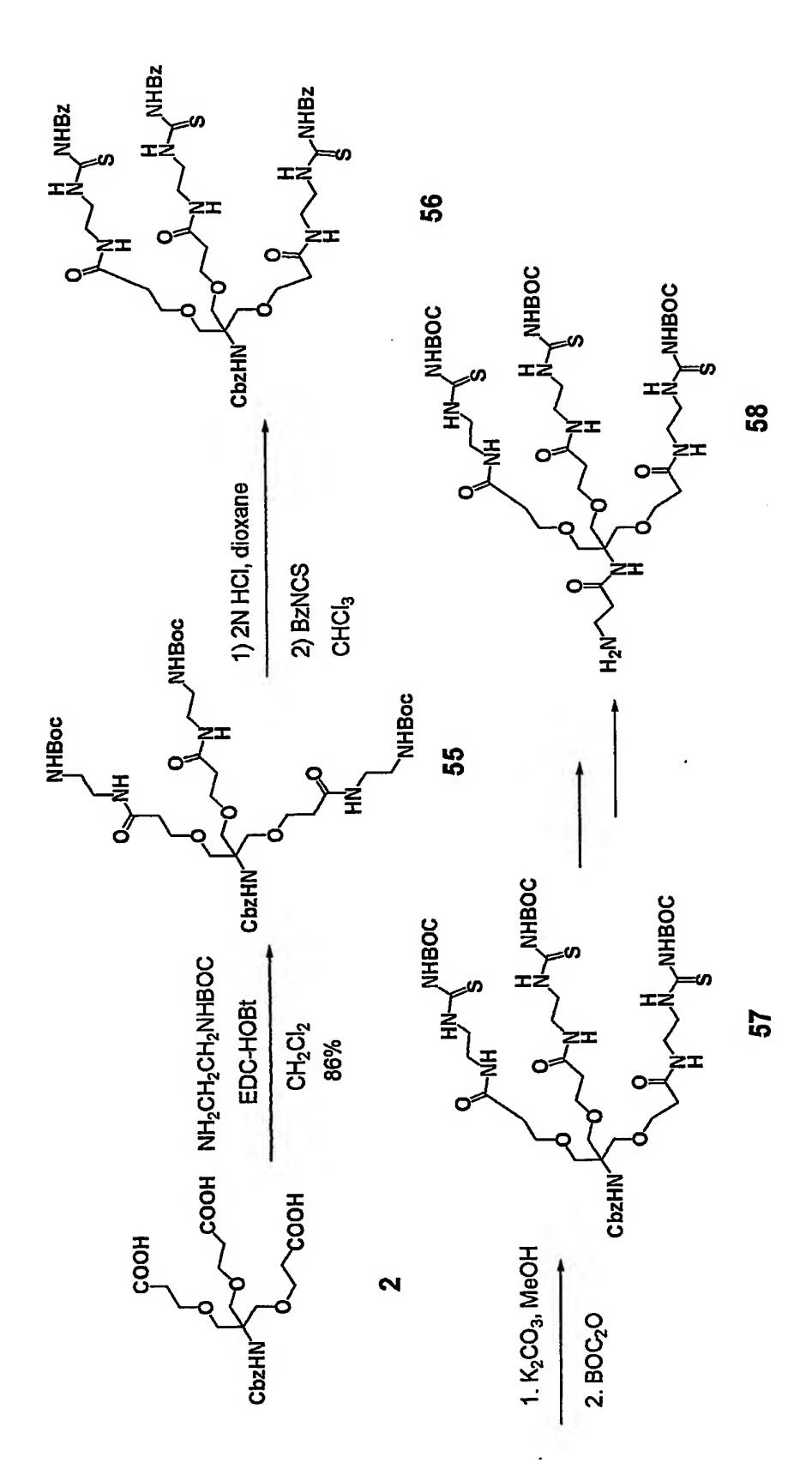
39/55 Figure 28A

40/55 Figure 28B

41/55 Figure 28C

PCT/US2003/022772

Figure 29



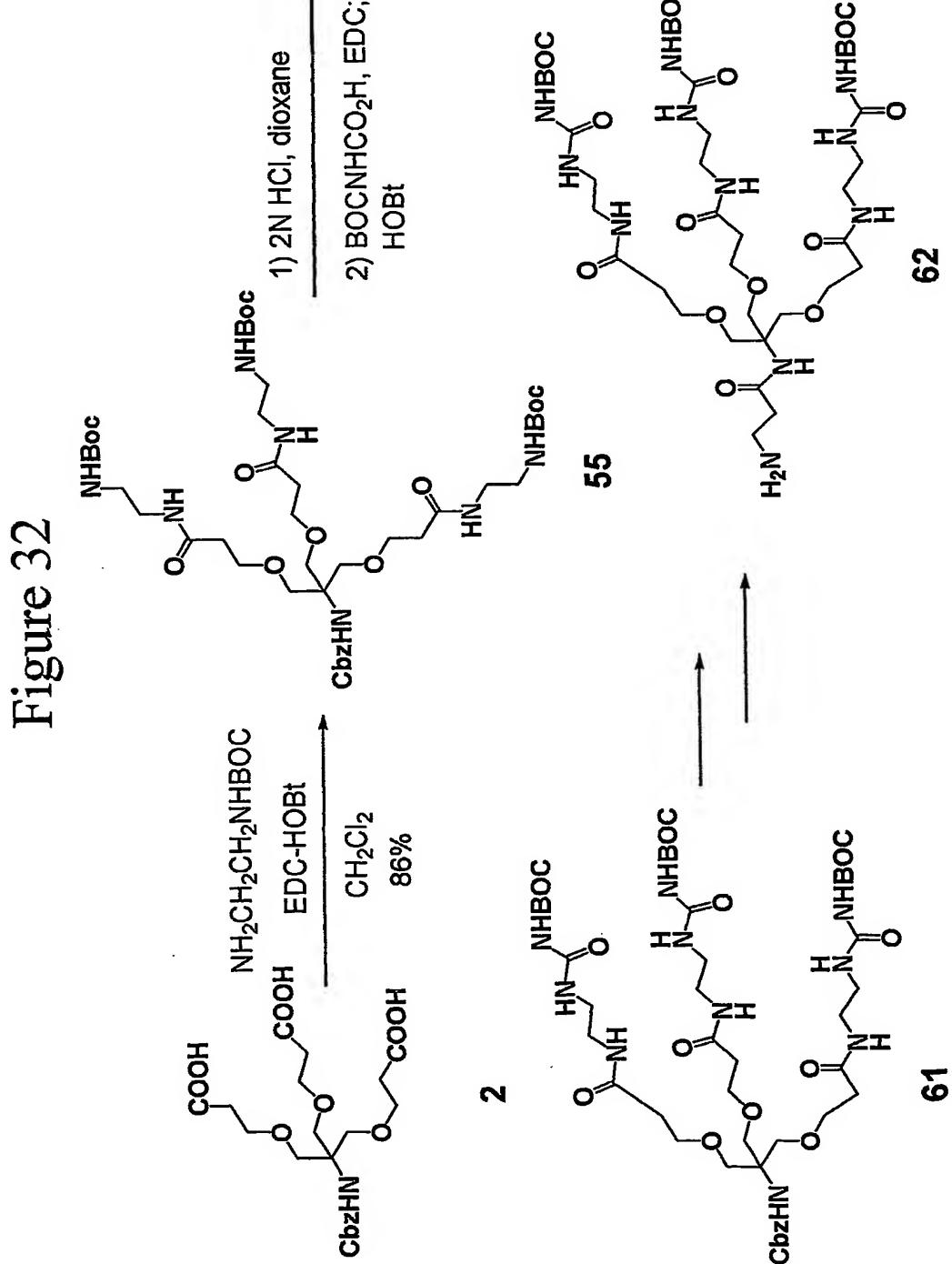
58

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44/55 Figure 31

PCT/US2003/022772

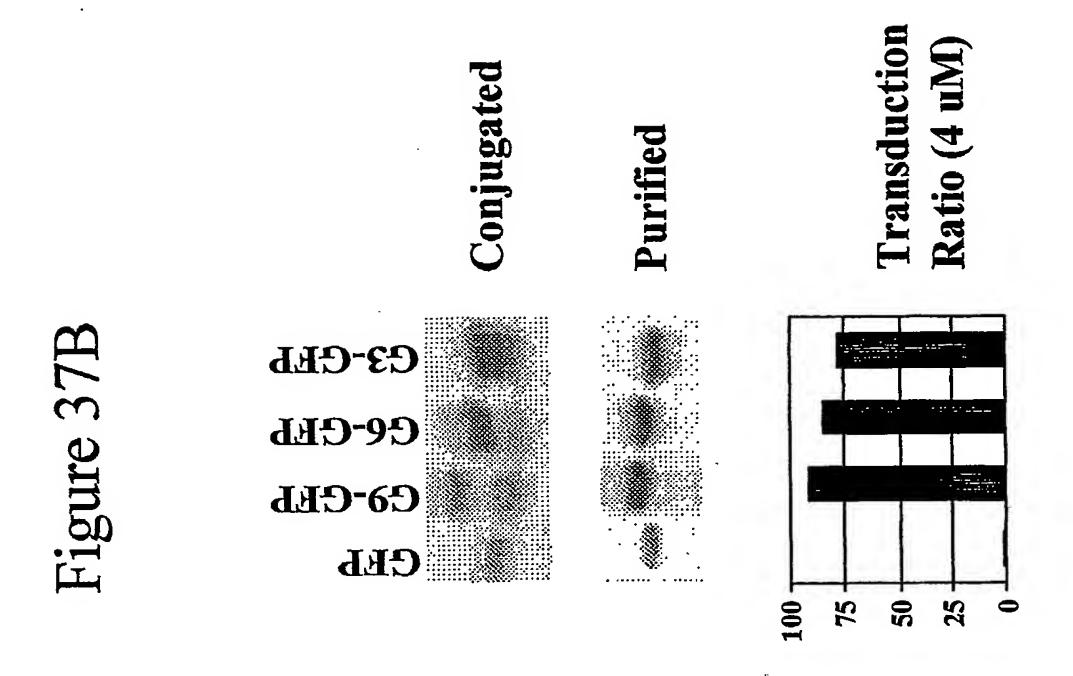
NHBOC NHBOC

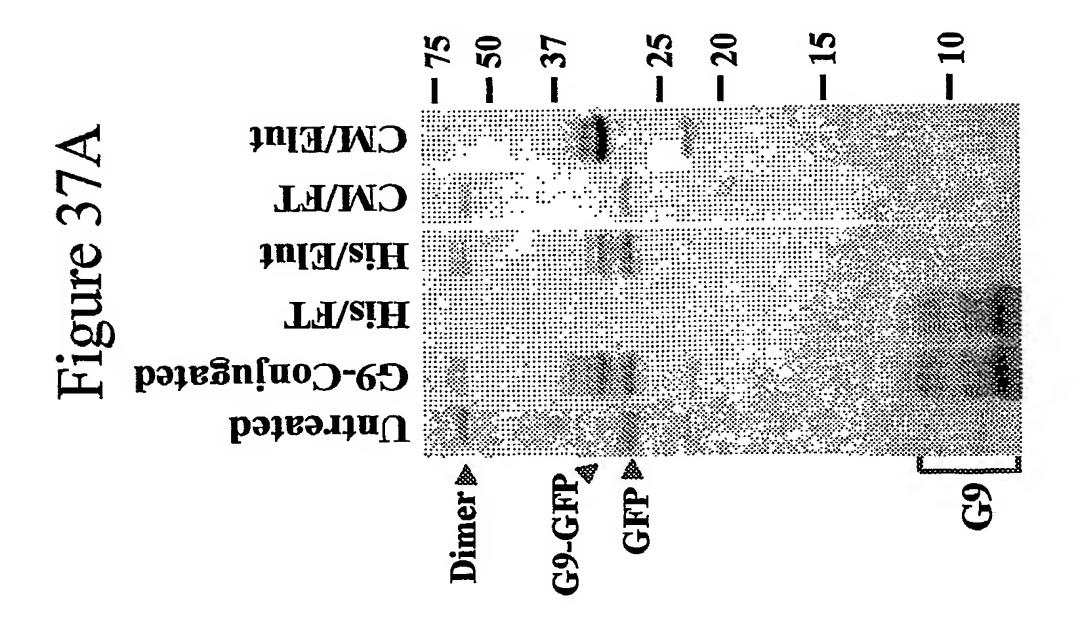


NHCbz

68: R = H ✓ 2N HCI

67: R = Boc





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Figure 38A

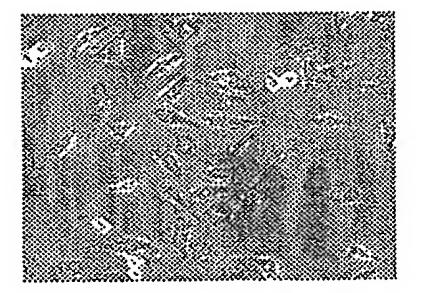


Figure 38B

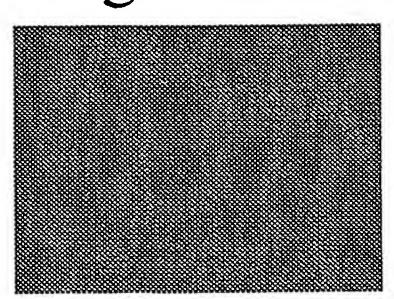


Figure 38C

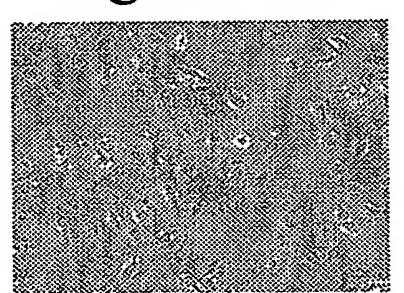
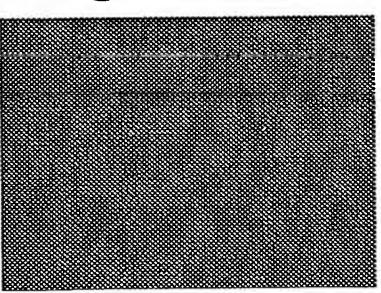


Figure 38D



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Figure 38E

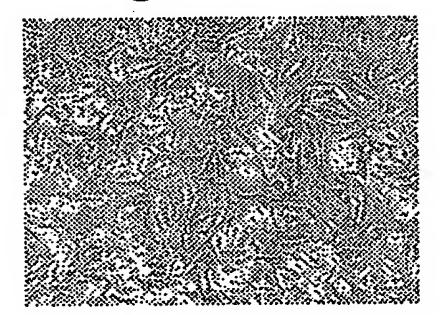


Figure 38F

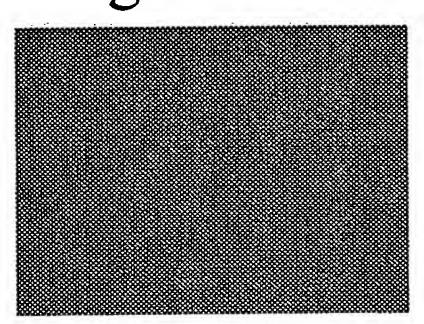


Figure 38G

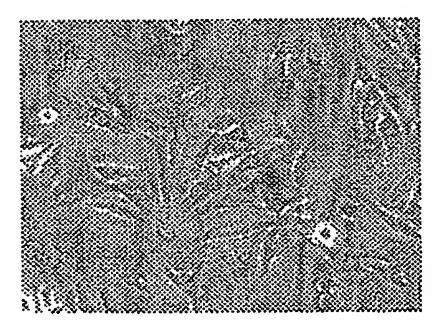
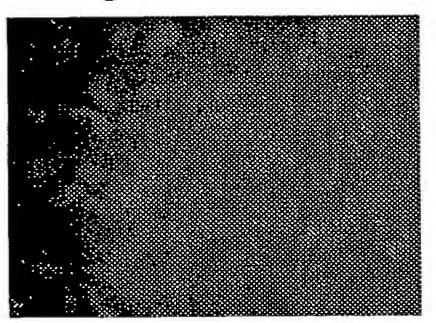


Figure 38H



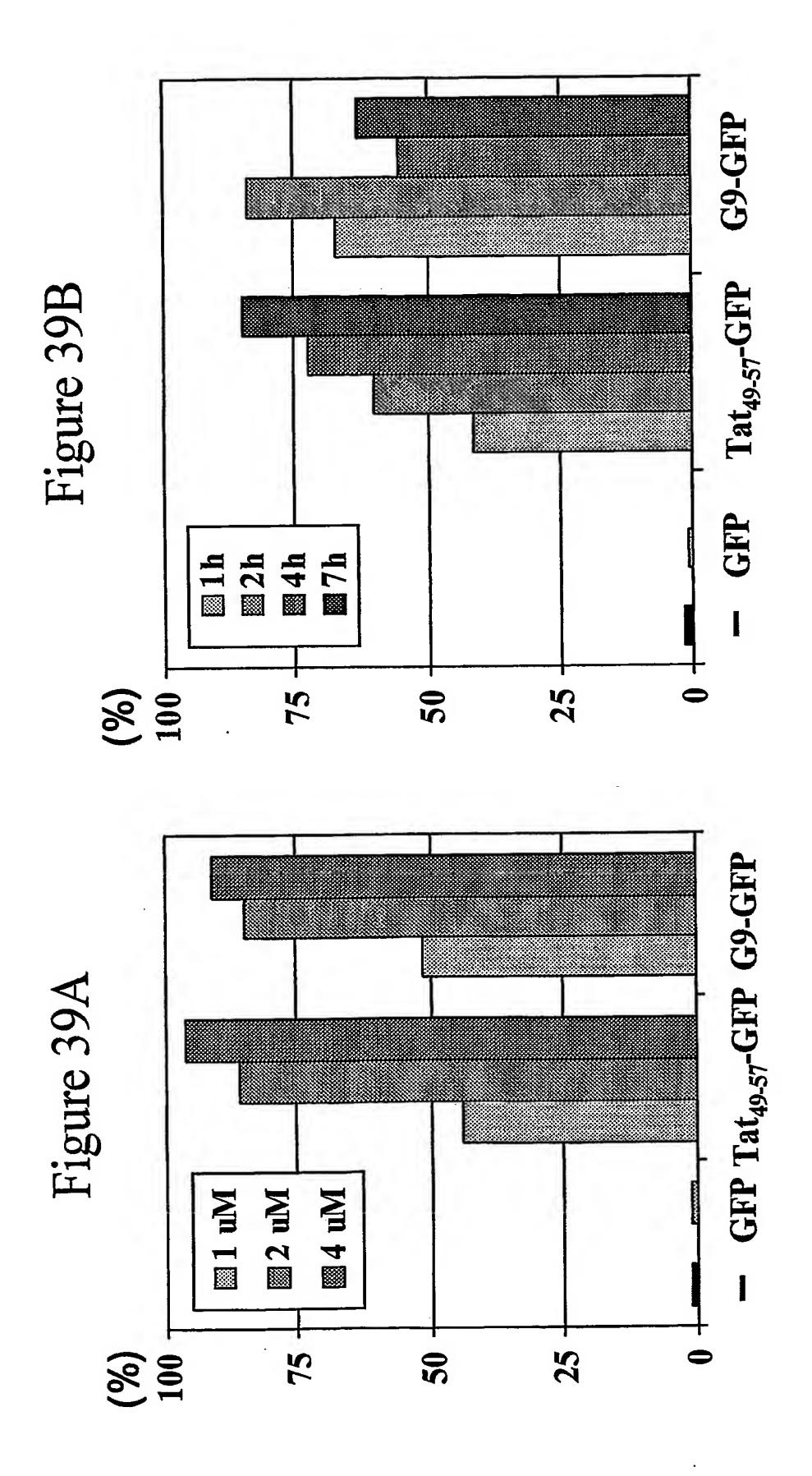


Figure 40A

Figure 40C

Figure 40B

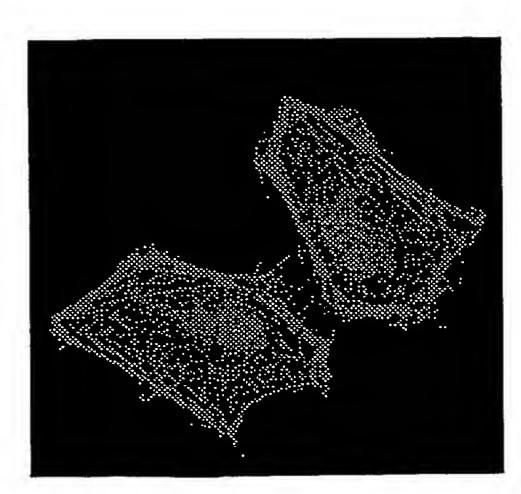


Figure 41C Figure 41E Figure 41B Figure 41D Figure 41A